Claims:

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- 1. Use of a pharmaceutically effective amount of a polyphenol for the preparation of a medicament for the treatment of a cancerous lesion of the skin of a patient.
 - 2. The use according to claim 1, wherein the cancerous lesion is a pre-cancerous lesion.
- 3. The use according to claim 1, wherein the lesion of the skin is a non-virally induced lesion.
 - 4. The use according to claim 3, wherein the lesion is a lesion not caused by papilloma virus.
- 5. The use according to claim 4, wherein the lesion is not a lesion selected from the group consisting of hyperplasia, Condyloma acuminata, warts and cervical intraepithelial neoplasia.
 - 6. The use according to claim 1, wherein the patient is a human.

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- 7. The use according to claim 1, wherein the cancerous lesion of the skin is an advanced tumor.
- 8. The use according to claim 1, wherein the polyphenol is isolated from tea.

- 9. The use according to claim 1, wherein the polyphenol is extracted from a tea.
- 10. The use according to claim 9, wherein the tea is a green tea.
- 30 11. The use according to claim 1, wherein the polyphenol is isolated from a tea extract.

- 12. The use according to claim 1, wherein the polyphenol is selected from the group consisting of catechol, catechol gallate, epicatechol, epicatechol gallate, epigallocatechol, epigallocatechol gallate, gallocatechol and/or gallocatechol gallate.
- 5 13. The use according to claim 1, wherein the polyphenol has the general formula (I)

$$R_1$$
 Q
 R_5
 R_6
 R_7
 R_7
 R_1
 R_2
 R_3
 R_4

in which

R₁, R₂ and R₆ are independently from each other -H or -OH,

 R_3 is -H or =O and

R₄ is independently from each other -H, -OH or a group of the formula (III)

(III)

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 R_5 and R_7 are independently from each other -H, -OH or -OCH₃, and ----- optionally represents a bond

20 14. The method according to claim 12, wherein the catechol has the general formula (II)

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in which

R₈ is -H or -OH, and

R₉ is -H or a group of the formula (III)

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polyphenols.

- 15. The use according to claim 12, wherein the catechol is selected from the group consisting of of (+)-catechol, (-)-catechol, (+)-catechol gallate, (-)-catechol gallate, (+)-epicatechol, (-)-epicatechol, (+)-epicatechol gallate, (-)-epigallocatechol, (-)-epigallocatechol gallate, (-)-epigallocatechol gallate, (-)-epigallocatechol gallate, (+)-gallocatechol gallate and/or (-)-gallocatechol gallate.
- 16. The use according to claim 1, wherein the polyphenol is present in the form of a mixture of polyphenols, in particular catechols, especially containing catechol, catechol gallate, epicatechol, epicatechol gallate, epigallocatechol, epigallocatechol gallate, gallocatechol and/or gallocatechol gallate, whereas the gallates of catechol, epicatechol, epigallocatechol or of gallocatechol are most preferred in the mixture of
- 17. The use according to claim 16, wherein the mixture of polyphenols is a tea extract.

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18. The use according to claim 17, wherein the tea extract is a green tea extract.

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- 19. The use according to claim 17, wherein the mixture of polyphenols is selected from the group consisting of catechol, catechol gallate, epicatechol, epicatechol gallate, epigallocatechol, epigallocatechol gallate, gallocatechol and/or gallocatechol gallate.
- 20. The use according to claim 19, wherein the catechols are selected from the group consisting of (-)-epicatechol, (-)-epicatechol gallate, (-)-epigallocatechol, (-)-epigallocatechol gallate, (+)-gallocatechol and/or (-)-gallocatechol gallate.
- 21. The use according to claim 19, wherein the catechols are selected from the group consisting of about 2-20% (w/w) epicatechol, about 2-20% (w/w) epicatechol gallate, about 1-25% (w/w) epigallocatechol, about 40-75% (w/w) epigallocatechol gallate, about 0.05-5% (w/w) gallocatechol and/or about 0.5-20% (w/w) gallocatechol gallate.
- 22. The use according to claim 19, wherein the catechols are selected from the group consisting of about 10.8% (w/w) of epicatechol, about 6.5% (w/w) of epicatechol gallate, about 9.2% (w/w) of epigallocatechol, about 54.8% (w/w) of epigallocatechol gallate and/or about 4.0% (w/w) of gallocatechol gallate.
- 23. The use according to claim 19, wherein the mixture contains about 10.8% (w/w) of (-)-epicatechol, about 6.5% (w/w) of (-)-epicatechol gallate, about 9.2% (w/w) of (-)-epigallocatechol, about 54.8% (w/w) of (-)-epigallocatechol gallate and about 4.0% (w/w) of (-)-gallocatechol gallate.
- 24. The use according to claim 19, wherein the catechols are selected from the group consisting of about 2-12% (w/w) epicatechol, about 4-15% (w/w) epicatechol gallate, about 1-8% (w/w) epigallocatechol, about 60-68% (w/w) epigallocatechol gallate, about 0.05-1% (w/w) gallocatechol and/or about 1-7% (w/w) gallocatechol gallate.

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25. The use according to claim 19, wherein the catechols are selected from the group consisting of about 5-8% (w/w) epicatechol, about 5-7% (w/w) epicatechol gallate, about 2-3% (w/w) epigallocatechol, about 61-65% (w/w) epigallocatechol gallate and/or about 2-4% (w/w) of gallocatechol gallate.

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26. The use according to claim 19, wherein the catechols are selected from the group consisting of about 5-8% (w/w) epicatechol, about 5-6% (w/w) epicatechol gallate, about 6-8% (w/w) epigallocatechol, about 61-65% (w/w) epigallocatechol gallate and/or about 2-4% (w/w) of gallocatechol gallate.

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- 27. The use according to claim 1, wherein the polyphenol is combined with an additive.
- 28. The use according to claim 27, wherein the additive is selected from the group consisting of petroleum jelly, wax, oleyl alcohol, propylene glycol monostearate, propylene glycol monopalmitostearate and/or isopropyl myristate.
- 29. The use according to claim 1, wherein the polyphenol is administered topically.
- 30. The use according to claim 1, wherein the polyphenol is contained in a carrier selected from the group consisting of an emulsion, a gel, a cream and/or an ointment.
 - 31. The use according to claim 1, wherein the treatment of said lesions is combined with a different anticancer treatment.
- 32. The use according to claim 31, wherein the different anticancer treatment is selected from the group consisting of surgery, electrodessication, curettage, excision, Mohs micrographic surgery, radiation, proton therapy, chemotherapy, photodynamic therapy, cryosurgery, laser, immunotherapy, vaccine therapy and/or biologic therapy.
- 33. The use according to claim 32, wherein the chemotherapy is carried out with an agent selected from the group consisting of podophyllin, 5-fluorouracil, bleomycin, interferon, imiquimod, and mixtures thereof.

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- 34. The use according to claim 32, wherein the radiation is selected from the group consisting of X-ray radiation and γ-radiation.
- 5 35. The use according to claim 1 or 2, wherein the lesion of the skin is selected from the group consisting of skin cancer, cutaneous carcinoma, basal cell carcinoma, squamous cell carcinoma, actinic keratosis, solar keratosis, epithelioma, epithelial tumors, skin neoplasm, Bowen's disease, acanthoma, cancroid, cutaneous horn, hyperkeratosis, keratosis, molluscum contagiosum, lid tumors, xanthelasma, xanthoma, fibroma, verucca senilis, seborrheic keratosis, cheilocarcinoma, papillomatosis, penis carcinoma, radiodermatitis, sailor's skin, tar cancer, vaginal carcinoma, vulvar cancer, erythroplasia queyrat and/or carcinoma of the tongue, in particular actinic or solar keratosis and/or basal cell carcinoma.